



Sweep System - Components

Basic Specifications

Approximate weights:

One side broom	21,000 lbs. (9545 kgs)
Two side brooms	21,300 lbs. (9682 kgs)
Rear Overhang	7'10" (2388mm)
Cab	108" (2743)
Sweeper Length	12'10" (3912mm)

Width outside side broom drive (retracted) 8'0" (2483 mm)

Sweeping paths:

One side broom	8' 5" (2591 mm)
Two side brooms	10' 0" (3048 mm)
Two side brooms	12' 0" (3658 mm)

Axle capacities:

Front	10,000 lbs. (4545 kgs)
Rear	23,000 lbs. (10,454 kgs)
Height	9'10" (2743)
Total GVWR	33,000 lbs. (15,000 kgs)

Side Broom

Type 4 or 5 segment plastic disposable

Diameter 44" (1188 mm)

Wearing edge Steel disc (to take curb contact wear)

Speed Constant forward

Flexibility Free-floating and full sideways oscillation

Drive Full hydraulic

Adjustment Adjustment for tilt, pressure and wear

Lift control Pneumatic

Broom material 26" wire (660 mm)

Main Broom

Diameter 34 1/2" (876 mm)

Length 58" (1473 mm)

Replaceable, polypropylene broom material 26" (660 mm)

Control Hydraulic lift

Drive Hydraulic motor with chain and sprocket

Mounting Full-floating

Speed Constant

Bearings Self aligning

Dirt Conveyor

Type Squeegee with replaceable rubber edging

Material (elevator bottom) Bolt-in 2 piece abrasion resistant steel plates

Speed Constant, forward and reverse

Flexibility Lift independent (for large object passage)

Drive (forward and reverse) Hydraulic motor

Adjustment Hydraulic chain adjustment

Lift control Hydraulic (independent of rear broom)

Bearings Self-aligning

Elevator chain, constant radius chain and sprocket

Steel chain on urethane sprockets

Elevator jam warning device (optional) Panel-mounted

Dirt Hopper

Capacity, volumetric 4.5 yd3 (3.4 m3)

Material volume 3.3 yd3 (2.5 m3)

Hopper and dump controls Electro/hydraulic in cab

Maximum dump height 10' (3048 mm)

Minimum dump height 38" (965 mm)

Body to discharge door at dumping height 2' 3" (686 mm)

Maximum hopper dump angle 50 degrees

Dump cycle 70 seconds

Lift mechanism Two stage scissors with hydraulic cylinders

Design lift capacity 11,000 lbs. (5000 kgs)

Constant Pressure Water System

Capacity of tank 350 gallons (1325 L)

Water fill hose 15' 0" (4572 mm) with 2.5" (64 mm) NST hydrant coupling

Pump Electric centrifugal type

Spray nozzles Across front bumper and over each gutter broom

Controls Independent valves

Filter Plastic housing - fine mesh screen

Water tank Corrosion resistant with manhole cover

Engine

Make in Freightliner CAT® C7

Type 6 cylinder

Horsepower 230 @ 2200 RPM

Torque 660 lb. ft. (898 Nm)

Engine accessories Engine mounted lube-oil cooler, centrifugal water pump, spin-out fuel filter, spin-on oil filter, oil fill and level

Fuel Tank

Capacity 45 U.S. gallons (170 L)

Power Train

Allison automatic "World Transmission" model RDS 3500 with push button range selection with automatic shifting in 5 forward speeds.

Rear axle 2-speed

Vehicle governed speed 58 mph (95 kph)

Vehicle Hydraulic System

Pump Variable displacement piston type with controlled flow for all rotation and lift functions, load sensing hydraulics

Steering

Power assisted recirculating ball gearbox with direct coupled manual steering capacity.

Wheels

Front 10 stud, hub piloted steel disc, 22.5"/8.25" rims

Rear 10 stud, hub piloted steel disc, 22.5"/8.25" rims

Type 10 hole heavy-duty disc

Brakes

Service 4 wheel air

Front with 16" chambers (406 mm)

Rear with 30" chambers (762 mm)

Type Drum and shoe

Parking Spring applied rear wheel - Drum and Shoe

Electrical System

Twelve volt negative ground system with 160 amp alternator.

Battery: 2-925 CCA. All circuits protected activated by ignition switched constant duty solenoid (except lights).

Cab

All aluminum; intermittent electric windshield wipers; windshield washer, fresh air heater and defroster; individual seats with seat belts; two rear view mirrors mounted on doors; sun visors; all sweeper controls in cab on center console. Dual gutter broom models have dual steering wheels, throttle pedals, brake pedals, turn indicator lights. Tinted safety glass throughout. Air horn and arm rest.

Seats

Drivers l/h Hi-back air suspension

Drivers r/h Hi-back air suspension

Instrumentation

Fuel gauge, coolant temperature gauge, oil pressure gauge, volt-meter, speedometer/odometer, tachometer, transmission temperature, and hour meter.

Hood and Fenders

Unitized, corrosion resistant, molded and reinforced fiberglass and forward tilting.

Paint, Sweeper Body

99 RAL Colors Powder coat finish

Miscellaneous

Combination operator and maintenance manual and parts book

Options

Spray bar in front of main broom

Elevator jam warning device

Hydrant wrench

Warranties

Chassis OEM supplied

Engine OEM supplied

Transmission OEM supplied

Rear axle OEM supplied

Sweeper 1 year parts and labor

Extended warranty for sweeper components available.

Contact factory for details. Consult your local Elgin dealer for details on all OEM supplied warranties. Specifications are subject to change without notice and without responsibility to units previously sold.

The ESC warranty shall not apply to major components or trade accessories such as, but not limited to, trucks, engines, hydraulic pumps and motors, tires and batteries that have a separate warranty by the original manufacturer.

Your local Elgin Dealer is:

